

{ } { } { } { } { } - MATERIAL SAFETY DATA SHEET - { } { } { } { } { }

COMPLIES WITH OSHA SCS 29,CFR 1910.1200-ND OSHA 174

PRODUCT NAME: BLUE RIBBON CLEAR AMMONIA

EMERGENCY CONTACT NUMBER: 1-800-424-9300

SECTION #1	MANUFACTURER	[HMIS RATING]
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PATTERSON LABORATORIES, INC. HEALTH - 3
11930 PLEASANT AVENUE FLAMMABILITY - 0
DETROIT, MI 48217 REACTIVITY - 3
PERSONAL PROTECTION - B

NUMBER FOR GENERAL INFORMATION: 1-313-843-4500

SECTION #2 HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Name)	OSHA (PEL)	ACCIH (TEL)
AMMONIA (AS NH3)	50ppm	25ppm NIOSH
*AMMONIA (GAS)		50ppm

SECTION #3 PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 156 to 212 degrees F.	MELTING POINT: N/A
VAPOR PRESSURE: NO DATA	FREEZING POINT: 6F
SPECIFIC GRAVITY: .959	PH: 11.9
EVAPORATION RATE: 1	VAPOR DENSITY: NO DATA
SOLUBILITY IN WATER: Complete	
APPEARANCE/ODOR: A clear liquid with a distinct pungent ammonia odor.	

SECTION #4 FIRE & EXPLOSIVE HAZARD DATA

FLASH POINT(Method Use) Non-Flammable
FLAMMABLE LIMITS (LEL)-16% (UEL)-27%
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water,
spary or foam.
SPECIAL FIRE FIGHTING PROCEDURES: If possible, move product
from the fire area. Cool fire exposed containers with
water.
UNUSUAL FIRE & EXPLOSIVE HAZARDS: Negligible fire &
explosive hazard. If ammonia is involved, it is flammable.

Blue Ribbon CLEAR AMMONIACONTINUED

SECTION #5

REACTIVITY DATA

STABILITY: Stable CONDITIONS TO AVOID: Heat
INCOMPATIBILITY: Chlorine, iodine, hypochlorite, mineral
acids. Violent reactions may occur with incompatible
materials, releasing irritating or toxic gases.
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic oxides of nitrogen
and ammonia gas.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION #6

HEALTH HAZARD DATA

ROUTE OF ENTRY: Inhalation-likely, Skin-likely, Ingestion-
unlikely
HEALTH HAZARDS: (ACUTE)-Based on the testing of this
product, it is both an eye and skin irritant, and toxic by
Ingestion. (CHRONIC)- Not determined on this product.

CARCINOGENICITY:	NTP	IARC MONOGRAPH	OSHA REGULATED?
	N/A	N/A	

Not determined for finished product or ammonia (NH3), the
hazardous component in the product.

SIGNS AND SYMPTOMS OF EXPOSURE:

INHALATION: Mild exposure to ammonia vapors may cause
irritation of the nose, throat, coughing and sneezing. A
more severe exposure may cause respirator irritation,
dyspnea, pulmonary edema.
INGESTION: May cause excessive salivation, nausea, vomiting,
gastric irritation, with chances of perforation. Ingestion
of large quantities may produce CNS depression, shock and
convulsions.
SKIN: Powerful irritant, may cause severe burning pain and
corrosive damage. Repeated or prolonged exposure may cause
dermatitis.
EYES: Powerful irritant, may cause conjunctivitis, swelling
of eyelids, chemical burn, transient corneal damage, while
repeated or prolonged exposure may cause cataracts and
retinal atrophy.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None
EMERGENCY AND FIRST AID PROCEDURES: EYES- Immediately flush
with running water for at least 15 minutes. Get prompt
medical attention. SKIN - Rinse well with running water.
If irritation persists, contact a physician or local poison
control center. INHALATION - Remove victim to fresh air.
Provide symptomatic and supportive care. Contact physician
or poison control center. INGESTION - Immediately give
large quantities of water or milk to dilute. Do not induce
vomiting. Get PROMPT medical attention.